

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 50.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001713**Date Inspected:** 21-Jan-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Jiangyin**Location:** Chang xing dao, Shanghai**Quality Control Contact:** Mr. Don walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG Segment 8BE, 8CW and hand rails**Bid Item:** 77, 78, 79**Lot No:** B#204**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE II coating inspector, Mr. Baskar Govindarajan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE II coating inspector observed the following:

An inspection was requested for the OBG segment, 8BE, internal ceiling, Floor beam and internal entire floor for DFT check, request no. 2544. This Caltrans inspector observed, ABF inspectors Mr. Don walton, Mr. Sun and Mr. wei performing DFT check of above mentioned areas. The same was found rejected by ABF personnels for low DFT in several areas. The same segment was reoffered after touch ups vide notification no. 2546 and the same was found acceptable by ABF after minor touch up to low areas. The ambient conditions found to be 9.3 deg. above dew point and the relative humidity found to be 37.7% inside the paint shop which is found to be within the parameters of contract documents.

An inspection was requested for Catway hand rails- 29 nos for DFT of Galvanized surface and visual acceptance after Galvanizing, request no. 2545. The details of 29 nos of handrails are 1.RL 201A-21 nos, 2. RL201 B, RL 201C, RL 202C, RL202D -2 nos each. This Caltrans inspector observed, ABF Inspector Mr. Sun performing DFT inspection of the same. Minor repair portions for debris need touch ups and ABF wanted ZPMC to resubmit the notification after minor touch ups. DFT found in the range of 140 to 200 microns. Ambient conditions were monitored and found to be within the parameters of contract documents.

An inspection was requested for the OBG segment 8CW for Degreasing and cleaning of request no. 1962. This

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Caltrans inspector observed, ABF Inspectors Mr. Bill oak, Mr. wei and Mr. Sun performing measuring DFT for the primer application. The DFT found to be in the range of 110 to 125 microns. ABF inspectors asked ZPMC to perform minor touch ups of bolt holes. Ambient conditions were monitored and found to be within the parameters of contract documents. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

An inspection was requested for OBG segment 7BE external surfaces, as per document no. PR 008,Rev. 03, request no. 1961. This Caltrans inspector observed, ABF Inspectors Mr. Bill oak, Mr. wei and Mr. Sun performing DFT measurement of the external surfaces and witnessing residual chlorides test performed by ZPMC. After DFT check, ABF Inspectors asked ZPMC to perform repair (1252) on bottom plate. The same was found accepted by ABF inspectors after necessary repair work. Ambient conditions were monitored and found to be within the parameters of contract documents. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

### Summary of Conversations:

No applicable conversations.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Skyler Guest -15000422360, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Baskar,Govindarajan	Quality Assurance Inspector
<b>Reviewed By:</b>	Clifford,William	QA Reviewer

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